TITLE: LOW PHASE-NOISE LOCAL OSCILLATOR AND METHOD INVENTORS NAME: Michael R. Beylor et al.

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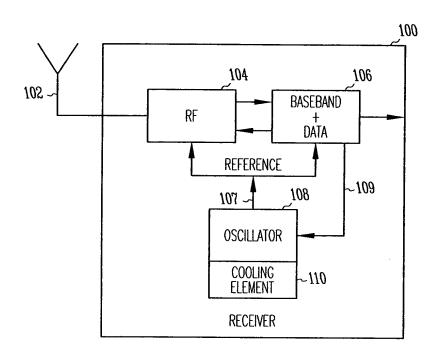


Fig. 1

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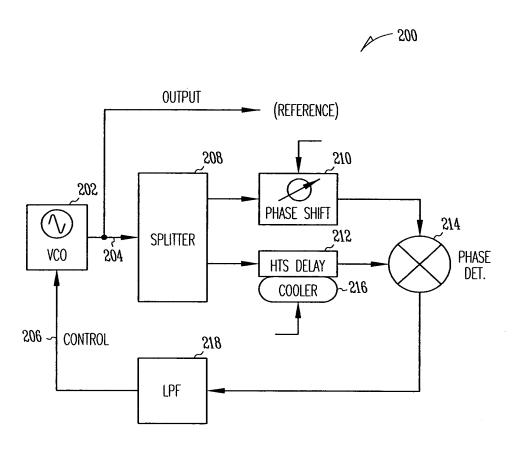


Fig. 2

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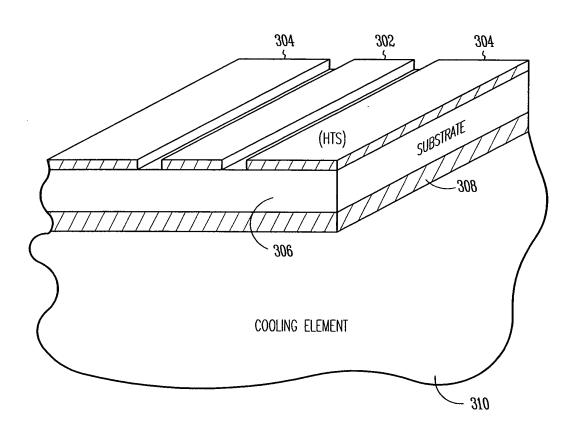


Fig. 3

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- 400 LOW PHASE-NOISE REFERENCE-FREQUENCY GENERATING PROCEDURE 402 CRYOGENICALLY COOL DELAY ELEMENT 404 GENERATE REFERENCE SIGNAL AT THE OSCILLATION FREQUENCY 406 PHASE SHIFT THE REFERENCE SIGNAL 408 DELAY REFERENCE SIGNAL WITH HIGH-TEMPERATURE SUPERCONDUCTOR DELAY ELEMENT 410 GENERATE CONTROL SIGNAL FROM PHASE DIFFERENCE 412 FILTER CONTROL SIGNAL 414 CONTROL FREQUENCY GENERATION WITH FILTERED CONTROL SIGNAL

Fig. 4